AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (twice amended) A method for verifying an electron treatment field created by an electron treatment beam, comprising:

directing the electron treatment beam from a treatment head toward a location to be irradiated;

positioning an imaging device downstream from the location to be irradiated; and operating said imaging device to detect an image created by photons <u>produced incidental</u> to [generated in] the delivery of said electron treatment beam to said location.

- (original) The method of claim 1, further comprising:enhancing said image to generate a representation of said electron treatment field.
- 3. (original) The method of claim 1, wherein said imaging device is a flat panel imaging device.
- 4. (canceled)
- 5. (original) The method of claim 3, wherein said flat panel imaging device comprises a plurality of solid state sensors.
- 6. (original) The method of claim 5, wherein said solid state sensors are amorphous silicon sensors.
- 7. (original) The method of claim 1, wherein said imaging device comprises video technology.

8. (previously amended) The method of claim 2, wherein said enhancing further comprises:

determining an energy of said electron treatment beam;

calculating an angular dependence of said photons on said electron treatment

beam; and

generating said representation of said electron treatment field based on said detected image and said angular dependence.

9. (previously amended) The method of claim 2, wherein said enhancing further comprises:

comparing said image to an open field image to generate an enhanced image of said electron treatment field.

- 10. (previously amended) The method of claim 2, further comprising:
 displaying said representation of said electron treatment field on an operator display console.
- 11. (previously amended) The method of claim 2, further comprising:

 comparing said representation of said electron treatment field to a desired image of said electron treatment field.
- 12. (previously amended) The method of claim 11, further comprising:
 adjusting at least one of a collimator position and a patient position if said
 comparison indicates that said representation of said electron treatment field is different from
 said desired image of said electron treatment field.
- 13. (twice amended) A method for verifying a treatment field in a radiation therapy device, comprising:

directing an electron beam at an object to be irradiated; collimating said electron beam to generate an electron treatment field; and detecting, using an imaging device, an image created by a plurality of photons after passing through said object, said plurality of photons contained within said electron treatment field and produced incidental to said electron beam.

- 14. (original) The method of claim 13, further comprising:enhancing said image to generate a representation of said electron treatment field.
- 15. (original) The method of claim 13, wherein said plurality of photons are bremsstrahlung photons.
- 16. (previously amended) The method of claim 14, further comprising:

 comparing said representation with a desired image of said electron treatment
 field; and

 repositioning at least one of said object and a collimator device if said comparing
 indicates that said representation is not within an expected tolerance of said desired image.
- 17. (original) The method of claim 14, wherein said enhancing further comprises:
 determining an energy of said electron treatment beam;
 calculating an angular dependence of said photons on said electron treatment
 beam; and
 generating said representation of said electron treatment field based on said
 detected image and said angular dependence.
- 18. (original) The method of claim 13, further comprising:

 positioning an imaging device beneath a treatment zone;

 directing an electron beam at said treatment zone;

 collimating said electron beam to generate an electron treatment field;

 detecting, using said imaging device, an open field image; and

 comparing said open field image with said image to produce a representation of said electron treatment field.

19. (twice amended) A radiation treatment field verification method, comprising:
generating a radiation treatment beam comprised of one of primary electrons and
primary photons;

selectively shaping said radiation treatment beam to create a radiation treatment field on an object;

detecting components of said radiation treatment beam on an imaging device positioned downstream of said object; and

generating a representation of said radiation treatment field.

- 20. (original) The method of claim 19, wherein said radiation treatment beam comprises primary electrons and wherein said components of said radiation treatment beam are bremsstrahlung photons generated within said radiation treatment beam.
- 21. (original) The method of claim 19, wherein said radiation treatment beam comprises primary photons and wherein said components of said radiation treatment beam are photons of said radiation treatment beam.
- 22. (original) The method of claim 19, wherein said selectively shaping is performed by controllably positioning a photon collimator and an electron collimator.
- 23. (original) The method of claim 20, wherein said generating a representation further comprises:

determining an energy of said primary electrons;

calculating an angular dependence of said bremsstrahlung photons on said primary electrons; and

generating said representation of said radiation treatment field based on said detected components and said angular dependence.

24. (previously amended) The method of claim 20, wherein said generating a representation further comprises:

generating an open field representation of said radiation treatment field; and

comparing said open field representation with said components detected downstream of said object to generate said representation of said radiation treatment field.

25. (previously amended) A radiation therapy device, comprising:

an image detector positioned downstream from an object being irradiated by an electron beam and capturing a radiation image, said electron beam having a field shape at said object; and

a computing device coupled to said image detector and operative to enhance said radiation image to generate a representation of said radiation image.

- 26. (original) The radiation therapy device of claim 25, further comprising: a display device coupled to said computing device and displaying said representation of said radiation image.
- 27. (original) The radiation therapy device of claim 25, further comprising: at least a first collimating device positioned along a path of said electron beam and controllably positioned to generate said field shape.
- 28 (twice amended) A system for verifying an electron treatment field, comprising: means for directing an electron treatment beam from a treatment head toward a location to be irradiated;

means for positioning an imaging device downstream from the location to be irradiated; and

means for operating said imaging device to detect an image created by photons produced incidental to [generated in] the delivery of said electron treatment field to said location.